

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P166475

Luminaire Tested: **22ALNG-LD4-31-UNV-L835-CD1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P166475
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22ALNG-LD4-31-UNV-L835-CD1
Description: METALUX ARCLINE 2X2 LED FIXTURE
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25824)
Light Source: -
Ballast/Driver: -

Summary

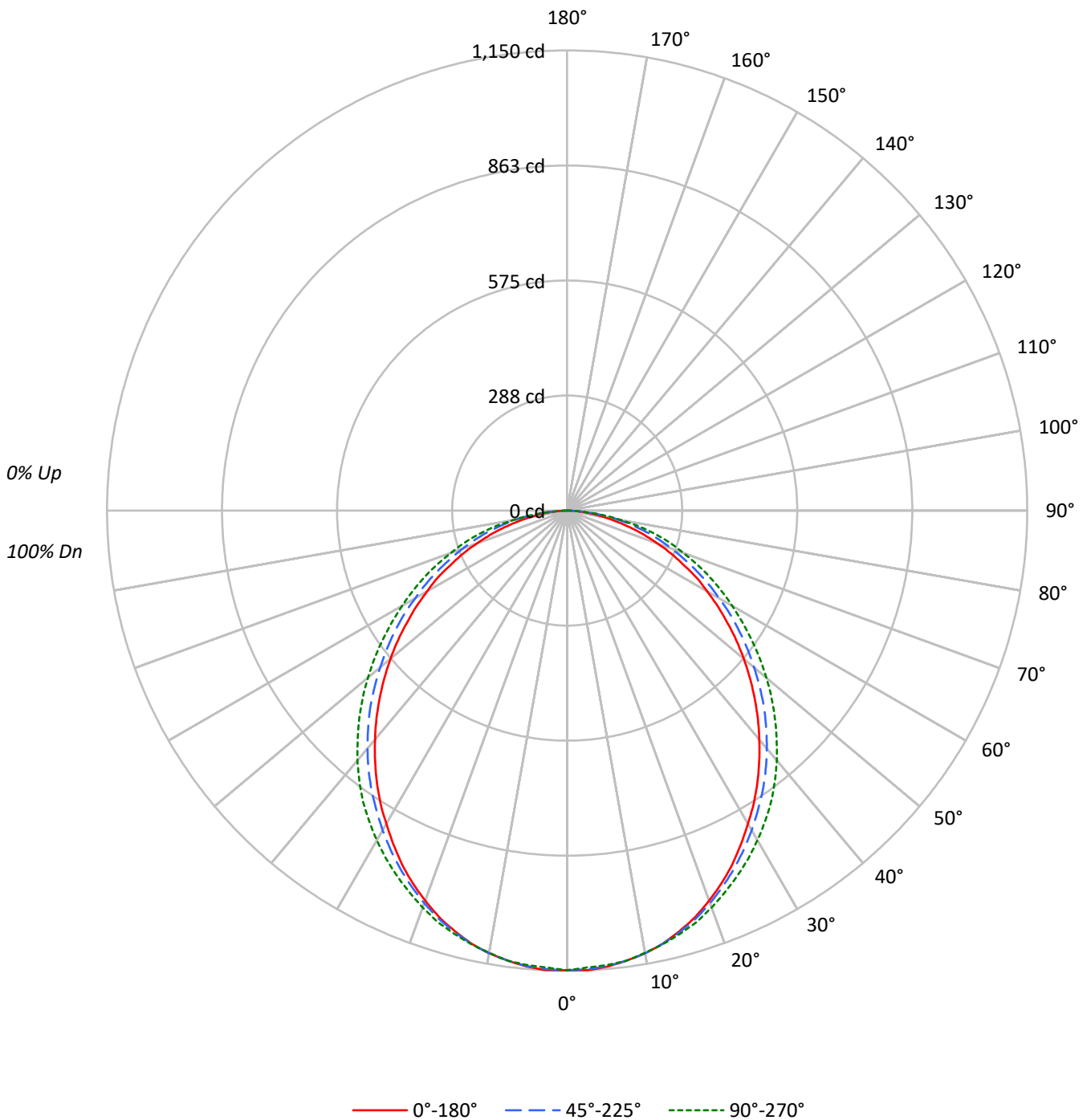
Lumens per Lamp: N/A
Luminaire Lumens: 3033.6 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.23 / 1.32
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')
CIE Type: Direct

Input Watts (W): 29.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	98	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	75	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	71	57	48	42	69	56	48	42	55	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	48	39	33	59	47	39	33	45	38	33	44	38	33	43	37	33	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3365	3365	3365
5°	3366	3362	3353
10°	3343	3343	3339
15°	3299	3307	3319
20°	3235	3256	3291
25°	3156	3192	3255
30°	3059	3120	3219
35°	2966	3050	3179
40°	2858	2969	3118
45°	2745	2883	3044
50°	2627	2779	2962
55°	2497	2681	2873
60°	2368	2571	2791
65°	2224	2474	2725
70°	2058	2379	2641
75°	1840	2296	2594
80°	1569	2178	2320
85°	1261	1775	1728



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.5	3.6
10°-20°	307.5	10.1
20°-30°	455.6	15.0
30°-40°	534.9	17.6
40°-50°	537.1	17.7
50°-60°	469.5	15.5
60°-70°	353.0	11.6
70°-80°	210.0	6.9
80°-90°	57.6	1.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	871.6	28.7
0°-40°	1406.4	46.4
0°-60°	2413.0	79.5
0°-90°	3033.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3033.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1148	1148	1148	1148	1148	
5°	1144	1144	1143	1142	1140	109
15°	1087	1089	1090	1094	1094	306
25°	976	978	987	1001	1007	449
35°	829	835	853	878	889	518
45°	662	671	696	722	735	511
55°	489	498	525	550	562	438
65°	321	330	357	379	393	319
75°	162	176	203	221	229	173
85°	38	46	53	53	51	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1148.5	1148.5	1148.5	1148.5	1148.5
2.5°	1149.8	1148.5	1147.1	1144.3	1142.9
5°	1144.3	1144.3	1142.9	1141.5	1140.1
7.5°	1134.6	1136.0	1134.6	1134.6	1134.6
10°	1123.5	1124.8	1123.5	1123.5	1122.1
12.5°	1108.2	1108.2	1108.2	1109.6	1109.6
15°	1087.4	1088.7	1090.1	1094.3	1094.3
17.5°	1065.1	1065.1	1069.3	1076.2	1077.6
20°	1037.4	1038.7	1044.3	1052.6	1055.4
22.5°	1008.2	1009.6	1016.5	1027.6	1031.8
25°	976.3	977.6	987.4	1001.3	1006.8
27.5°	940.1	942.9	955.4	973.5	980.4
30°	904.0	908.2	922.1	942.9	951.3
32.5°	867.9	872.1	887.4	911.0	920.7
35°	829.1	834.6	852.7	877.7	888.8
37.5°	788.8	794.3	815.2	841.6	852.7
40°	747.1	754.1	776.3	802.7	815.2
42.5°	705.5	712.4	736.0	762.4	774.9
45°	662.4	670.7	695.7	722.1	734.6
47.5°	619.4	627.7	652.7	679.1	693.0
50°	576.3	584.6	609.6	636.0	649.9
52.5°	533.3	541.6	568.0	593.0	606.9
55°	488.8	498.5	524.9	549.9	562.4
57.5°	447.2	455.5	483.3	506.9	519.4
60°	404.1	413.8	438.8	462.4	476.3
62.5°	366.6	370.8	398.6	420.8	434.7
65°	320.8	330.5	356.9	379.1	393.0
67.5°	281.9	290.2	316.6	340.2	351.3
70°	240.2	251.4	277.7	298.6	308.3
72.5°	201.4	212.5	240.2	261.1	270.8
75°	162.5	176.4	202.8	220.8	229.1
77.5°	126.4	141.6	165.3	181.9	186.1
80°	93.0	106.9	129.1	136.1	137.5
82.5°	63.9	76.4	90.3	93.0	93.0
85°	37.5	45.8	52.8	52.8	51.4
87.5°	16.7	19.4	18.1	16.7	13.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)